

THE UNIVERD SHAVES OF AMERICA

To all to whom these presents shall come: Hinneer Hi-Ared International, Inc.

MICCONS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT. THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TRUE PROTECTION OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT (S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT (S) IS ARE ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR ORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT, COMMON

'25R39'

In Testimonn Marrest, I have hereunto set my hand and caused the seal of the Plant Harista Frotestion Office to be affixed at the City of Washington, D.C. this ninth day of December, in the year two thousand and eight.

Attast:

Qanza

Commissioner Plant Variety Protection Office Agricultural Marketing Service Colword T. School

Secremiy & Agriculture

CAPACITY OR TITLE

DATE

Sr. Research Manager

GENERAL INSTRUCTIONS: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filing fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice). NEW: With the application for a seed reproduced variety or by direct deposit soon after filing, the applicant must provide at least 3,000 viable untreated seeds of the variety per se, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filling a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the

Regulations and Rules of Practice.)

Plant Variety Protection Office

Telephone: (301) 504-5518 FAX: (301) 504-5291

General E-mail: PVPOmail@usda.gov

Homepage: http://www.ams.usda.gov/science/pvpo/PVPindex.htm

SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and **provide evidence** that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, **Seed Regulatory and Testing Branch**, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870. http://www.ams.usda.gov/lsg/seed.htm.

ITEM

19a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

19A. Exhibit A. Origin and Breeding History of Pioneer Wheat Cultivar 25R39.

Pioneer® cultivar 25R39 is a soft red winter wheat (*Triticum aestivum* L.) developed by Pioneer Hi-Bred International, Inc.. It was derived from a single cross made in 1996 as follows:

WBJ0323G2/25R49

WBJ0323G2 was a Pioneer experimental line derived from the cross: 2737W sib/2548//2548. The detailed parentage of 25R39 is:

2737W sib/2548//2548/3/25R49

During the 1996 fall greenhouse cycle, the final single cross, WBJ0323G2/25R49 was made and it was designated W970761. The subsequent breeding history of 25R39 is described below.

<u>Year</u> <u>Ge</u>	neration	
1996 Fin	al cross	
1997	F ₁ .	F ₁ grown in transplant nursery at Windfall IN.
1997-98	F ₂	Bulk populations grown at Windfall and Ft. Branch, IN. Individual spike selections made at both locations. This spike selection was made at Ft. Branch, IN.
1998-99	F ₃	Headrows from F_2 selections grown at Windfall and Ft. Branch, IN. Selected rows cut and threshed individually. This selection was made at Ft. Branch, IN.
1999-2000	F ₄	A three row X 3-meter observation plot was planted at Windfall and Ft. Branch, IN. A meter section of the center row was harvested from the selected plot and threshed in bulk.
2000-01	F ₅	A seven row X 3-meter plot was planted at Windfall and Ft Branch, IN. Fifty spikes were harvested from the selected plot and threshed individually.
2001-02	F ₆	Twenty headrows of the F_5 selection were grown at both Windfall and Ft. Branch, IN. Selected rows were cut and threshed individually. This selection was made at Ft. Branch, IN.
2002-03	F ₇	Preliminary yield testing of an $F_{\rm 5}$ selection from an $F_{\rm 6}$ headrow. This selection designated W970761Z1.
2003-04	F ₈	Advanced yield testing of W970761Z1. 200 individual spikes were harvested from a small bulk increase.

2004-05	F ₉	Elite yield testing of W970761Z1. 200 purification headrows planted, off-type rows destroyed prior to maturity. Approximately 100 of the remaining, inside rows were individually cut and threshed. Two spikes were taken from each harvested row.
2005-06	F ₁₀	Elite yield testing continued of W970761Z1. Seed from purification headrows planted in individual progeny plots which surrounded 200 headrows. Off-type plots and headrows were destroyed prior to harvest. Equal numbers of spikes were harvested from the remaining progeny plots for a total of 1000 individual spikes. 110 headrows were harvested. The progeny plots were harvested in bulk, which constitutes Breeder Seed. Bulk seed, headrow bulks, and individual spikes were turned over to Pioneer's Supply Management, Parent Wheat Seed group.
2006-07	F ₁₁	Elite yield testing continued, line designated YW06M. Seed increase continued by Pioneer Parent Wheat Seed Group.
2007-08	F ₁₂	Elite yield testing continues, line designated XW06M. Seed increase continues by Pioneer Parent Wheat Seed Group.

Decision to release XW06M was made in August 2008, at which time the commercial code, 25R39, was assigned.

The cultivar 25R39 was bred and selected using a modified pedigree selection method for any and all of the following characteristics in the field environment: disease resistance, plant type, plant height, head type, straw strength, maturity, grain yield, test weight, and milling and baking characteristics.

25R39 has been shown to be uniform and stable since the 7th generation, or for the last 5 generations. 25R39 has shown no variants other than what would normally be expected due to environment.

19B. Exhibit B. Statement of Distinctness

25R39 is most similar to Pioneer [®] variety 25R49 but with the following distinguishing characteristics:

- 1. The spike density of 25R39 is lax, while that of 25R49 is mid-dense.
- 2. The spike position at maturity of 25R39 is <u>inclined</u>, while that of 25R49 is <u>nodding</u>.
- 3. The seed shape of 25R39 is elliptical, while that of 25R49 is ovate.

REPRODUCE LOCALLY. Include form number and date on all reproductions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The vaid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 2.5 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write to USDA Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

Exhibit C

OBJECTIVE DESCRIPTION OF VARIETY Wheat (Triticum enn.)

,	Wileat (111th	<i>, u i</i> ii <i>i</i> ii	٧٠/			•				
name of applicant (s) Pioneer Hi-Bred	TEMPORARY OR EXPERIMENTAL I	DESIGNATIO	•	VARIETY NA	ME					
International, Inc.	XW06M			25R3	9					
ADDRESS (Street and No. or RD No., City, State, Zip Code and Co Crop Genetics Research & De 3850 N 100 E				FOR OFFICE PVPO NUME #			0 (ስ ፕ	Ē	o
Windfall, IN 46076					E V	VU	V	UU	O :	7
		7								•
PLEASE READ ALL INSTRUCTIONS CAREFULLY:								7 -		
Place the appropriate number that describes the varies when number is either 99 or less or 9 or less respective should be determined from varieties entered in the satisfication designate system used: Munsell Color (syour application.	vely. Data for quantitative plant me trial. Royal Horticultural So	character	s should be bas y recognized co	sed on a mi olor standal	nimum d d may b	of 100 pla	nts. C	ompan	ant co	olors;
:1. KIND:	2	. VERNAI	IZATION:							
1 = Common 2 = Durum 3 = Club 4 = Other (Specify)		2	1 = Spring 2 = Winter 3 = Other (Sp	ecify)						
3. COLEOPTILE ANTHOCYANIN:	4	. JUVENII	LE PLANT GR	OWTH:						· · · · · · · · · · · · · · · · · · ·
1 = Absent 2 = Present		2	1 = Prostrat	e	2 = Ser	ni-Erect	3 :	= Erect		
5. PLANT COLOR: (boot stage)	` 6	. FLAG LI	EAF: (boot stag	ıe)						
2 1 = Yellow-Green	•	2	1 = Erect		2 = Rec	urved				
2 = Green 3 = Blue-Green		2	1 = Not Twiste	ed	2 = Twi	sted				
		2	1 = Wax Abse	ent	2 = Wa	k Present	t			
7. EAR EMERGENCE:	·									
1 3 6 Number of Days (Average)										
Number of Days Earlier Than *										
Same As *					•					
1.3 Number of Days Later Than *	25R47				=					
*Re	elative to a PVPO-Approved Co	mmercial	/ariety Grown i	n the Same	e Trial					
8. ANTHER COLOR:										
1 = Yellow 2 = Purple										

	NT HEIGHT: (from soil to top of head, excluding awns) 9 3 2 cm (Average) 5 1 cm Taller Than Same As cm Shorter Than	•		* *	-		
10. ST	EM:						
A.	ANTHOCYANIN		D. 1	NTERNODE			
1	1 = Absent 2 = Present		,	1 = Hollow 2 = Se	emi-Solid	3 = Solid	
·* .				4 Number of Nodes			
	WAXY BLOOM		E. F	PEDUNCLE			
2	1 = Absent 2 = Present			1 = Erect 2 = Recurved	3 = Semi	-Erect	
+ 4				cm Length			
	HAIRINESS (last internode of rachis)		F. <i>F</i>	URICLE			
2	1 = Absent 2 = Present			2 Anthocyanin: 1 = At	sent	2 = Present	
			۱ .	2 Hair: 1 = Ab	osent	2 = Present	S. H. Oglan
11. HE	AD: (At Maturity)						
Α.	DENSITY		C. (CURVATURE			
1	1 = Lax 2 = Middense (Laxidense) 3 = Dense			2 1 = Erect 2 = Inclined 3 = Recurved			
В.	SHAPE		D. <i>A</i>	AWNEDNESS			
1	1 = Tapering 2 = Strap 3 = Clavate 4 = Other (Specify)			2 1 = Awnless 2 = Apically Awnletted 3 = Awnletted 4 = Awned			
12. GL	JMES: (At Maturity)						
·A.	COLOR	÷	E. E	BEAK WIDTH			
2	1 = White 2 = Tan 3 = Other (Specify)	_	[2			
В.	SHOULDER		F. 0	GLUME LENGTH			
3	1 = Wanting 2 = Oblique 3 = Rounded 4 = Square 5 = Elevated 6 = Apiculate 7 = Other (Specify)			1 = Short (ca. 7 mm) 2 = Medium (ca. 8 mm) 3 = Long (ca. 9 mm)			Ang.
C.	SHOULDER WIDTH		G. \	MIDTH			
2	1 = Narrow 2 = Medium 3 = Wide		[1 = Narrow (ca. 3 mm) 2 = Medium (ca. 3.5 mm) 3 = Wide (ca. 4 mm)			
D.	BEAK		H. F	PUBESCENCE			
2	1 = Obtuse 2 = Acute 3 = Acuminate			1 = Not Present 2 = Present	÷		

13. SE	ED:		
1.7	SHAPE	E. COLOR	
3	1 = Ovate 2 = Oval 3 = Elliptical	1 = White 2 = Amber 3 = Red 4 = Other (Specify)	
В.	CHEEK	F. TEXTURE	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
1	1 = Rounded 2 = Angular	1 = Hard 2 = Soft 3 = Other (Specify)	<u>.</u> .
C.	BRUSH	G. PHENOL REACTION (See Instructions)	
2	1 = Short 2 = Medium 3 = Long 1 = Not Collared 2 = Collared	1 = Ivory 4 = Dark Brown 2 = Fawn 5 = Black 3 = Light Brown	
D.	CREASE	H. SEED WEIGHT	
1	1 = Width 60% or less of Kernel 2 = Width 80% or less of Kernel 3 = Width Nearly as Wide as Kernel	3 4 g/1000 Seed (whole number only)	
2	1 = Depth 20% or less of Kernel 2 = Depth 35% or less of Kernel 3 = Depth 50% or less of Kernel	I. GERM SIZE 2 1 = Small 2 = Midsize 3 = Large	
14. DIS	EASE: PLEASE INDICATE THE SPECIFIC RACE OR STR	DAIN TESTED	
: :	(0 = Not Tested 1 = Susceptible	2 = Resistant 3 = Intermediate 4 = Tolerant)	
0	Stem Rust (<i>Puccinia graminis</i> f. sp. <i>tritici</i>)	2 Leaf Rust (<i>Puccinia recondita</i> f. sp. <i>tritici</i>)	٠
2	Stripe Rust (Puccinia striiformis)	O Loose Smut (Ustilago tritici)	
3	Tan Spot (Pyrenophora tritici-repentis)	Flag Smut (Urocystis agropyri)	
o	Halo Spot (Selenophoma donacis)	O Common Bunt (<i>Tilletia tritici</i> or T. <i>laevis</i>)	
3	Septoria nodorum (Glume Blotch)	Dwarf Bunt (Tilletia controversa)	
0	Septoria avenae (Speckled Leaf Disease)	0 Karnal Bunt (<i>Tilletia indica</i>)	
3	Septoria tritici (Speckled Leaf Blotch)	3 Powdery Mildew (<i>Erysiphe graminis</i> f. sp. <i>tritici</i>)	
1	Scab (Fusarium spp.)	0 "Snow Molds"	
0	"Black Point" (Kernel Smudge)	O Common Root Rot (Fusarium, Cochliobolus and Bipolaris spp.)	
. 1	Barley Yellow Dwarf Virus (BYDV)	Rhizoctonia Root Rot (Rhizoctonia solani)	
3	Soilborne Mosaic Virus (SBMV)	O Black Chaff (Xanthomonas campestris pv. translucens).	
3	Wheat Yellow (Spindle Streak) Mosaic Virus	O Bacterial Leaf Blight (Pseudomonas syringae pv. syringae)	
0	Wheat Streak Mosaic Virus (WSMV)	Other (Specify)	
	Other (Specify)	Other (Specify)	
	Other (Specify)	Other (Specify)	
	Other (Specify)	Other (Specify)	
5. INSI	ECT: (0 = Not Tested 1 = Susceptible 2 = Resistar	nt 3 = Intermediate 4 = Tolerant)	
_, .,,		CIFY BIOTYPE (where needed)	
[1]	Hessian Fly (Mayetiola destructor) Biotype E	Other (Specify)	
o	Stem Sawfly (Cephus spp.)	Other (Specify)	
0	Cereal Leaf Beetle (Oulema melanopa)	Other (Specify)	

#200800369

Exhibit		

15	. INSE	CT. (continued)	(0 = Not Tested	1 = Susceptible	2 = Resist	tant 3 =	Intermediate	4 = Tolerant)		
				PLEASE SI	PECIFY BIO	OTYPE (Where	Needed)			
	0	Russian Aphid (Diu	ıraphis noxia)			Other (Specify				
	0	Greenbug (Schizar	phis graminum)			Other (Specify	·)			
	0	Aphids				Other (Specify	')		. 	
		·								

16. ADDITIONAL INFORMATION ON ANY ITEM ABOVE, OR GENERAL COMMENTS:

19D. Exhibit D. Additional Description of the Variety

1. Yield and Agronomic information.

Preliminary yield testing of 25R39 began in the 2002-03 growing season and wide scale testing has been conducted from the 2003-04 growing season to the present. It has shown adaptation to the northern soft wheat regions based on tests conducted in Arkansas, Kentucky, Missouri, Illinois, Indiana, Ohio, Michigan, Maryland and Ontario, Canada (Table 1).

2. Information on Milling and Baking Qualities.

25R39 has demonstrated acceptable soft winter wheat milling and baking qualities (Table 2).

Supportive Information:

Table 1. Paired comparisons of 25R39 during the period 2003-2007.

er 1-9@	After Jan 1 135.9 134.2	cm 97.3
		135.9 134.2 8
9		134,2
.5		~
2		>
	7	16
50	0.50	0.01
io	6.5	136.8
4		135.8
_	4	27
		57 69 8
9	0.19	0.00
S		136.2
4	7.4	134.9
	4	29
		61 73
0.01	_	0.00

@ Scale of 1-9 where 9= excellent or resistant, 1= poor or susceptible.

SSMV = Wheat Spindle Streak Mosaic Virus SBMV = Soil-borne Mosaic Virus.

Data in above table collected at locations in Arkansas, Kentucky, Missouri, Illinois, Indiana, Ohio, Michigan, Maryland, and Ontario, Canada.

Table 2. Average Soft wheat quality data, 2003-2007.

Variety	Flour Viold	Break Flour	Flour	Lactic Acid	Sucrose
, much	בומתו דוכות	Yield	Protein	SRC	SRC
	%	%	%	%	%
25R39	70.9	41.1	7.2	96.1	8.98
Years(reps)	4(7)	4(7)	3(6)	4(7)	4(6)

25R56	71.4	37.4	8.0	78.8	80.9
ears(reps)	5(12)	5(12)	4(11)	5(12)	4(8)

83.2 3(9)

93.9 4(18)

3(11)

41.6 4(18)

72.0

25R49 Years(reps)

25R47	73.0	44.2	9.7	96.2	91.7
Years(reps)	5(23)	5(23)	4(16)	5(23)	4(14)

Lactic Acid SRC = Lactic Acid Solvent Retention Capacity

Sucrose SRC = Sucrose solution Retention Capacity

Quality data collected at the USDA-ARS Soft Wheat Quality Lab in Wooster, OH

REPRODUCE LOCALLY. Include form number and ed		
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE EXHIBIT E	Application is required in order to detecertificate is to be issued (7 U.S.C. 2-confidential until the certificate is issu	421).The information is held
STATEMENT OF THE BASIS OF OWNERSHIP		
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
Pioneer Hi-Bred International, Inc		25R39
4. ADDRESS (Street and No., or R.F.D.N o., City, State, and ZIP, and Country)	5. TELEPHONE (include area code)	6. FAX (Include area code)
cop Genetics Research & Development	(765) 945-7906	(765) 945-8313
350 N 100 E	7. PVPO NUMBER	
indfall, IN 46076	7. FVFO (40MIDER	#2008003
8. Does the applicant own all rights to the variety?M ark an "X" in t	 he appropriate block. If no, please expla	in. X YES NO
		<u> </u>
9. Is the applicant (individual or company) a U.S. national or a U.S.	based company?I f no, give name of co	ountry. X YES NO
10. Is the applicant the original owner?	NO If no, please answer one	of the following:
a. If the original rights to variety were owned by individual(s), is	(are) the original owner(s) a U.S. Nation	al(s)?
YES	NO If no, give name of countr	y
b. If the original rights to variety were owned by a company(les		sed company?
b. If the original rights to variety were owned by a company(let	s), is (are) the original owner(s) a U.S. base NO If no, give name of countr	sed company? ' y
b. If the original rights to variety were owned by a company(les	s), is (are) the original owner(s) a U.S. base NO If no, give name of countr	sed company? ' y
b. If the original rights to variety were owned by a company(les	s), is (are) the original owner(s) a U.S. base NO If no, give name of countr	sed company? ' y
b. If the original rights to variety were owned by a company(les	s), is (are) the original owner(s) a U.S. base NO If no, give name of countr	sed company? ' y
b. If the original rights to variety were owned by a company(les	s), is (are) the original owner(s) a U.S. base NO If no, give name of countr	sed company? ' y
b. If the original rights to variety were owned by a company(les	s), is (are) the original owner(s) a U.S. base NO If no, give name of countr	sed company? ' y
b. If the original rights to variety were owned by a company(les	s), is (are) the original owner(s) a U.S. base NO If no, give name of countr	sed company? ' y
b. If the original rights to variety were owned by a company(lest YES 11. Additional explanation on ownership (Trace ownership from original explanation)	s), is (are) the original owner(s) a U.S. base NO If no, give name of countr	sed company? ' y
b. If the original rights to variety were owned by a company(lest YES 11. Additional explanation on ownership (Trace ownership from original explanation) PLEASE NOTE:	s), is (are) the original owner(s) a U.S. base NO If no, give name of country winal breeder to current owner. Use the research	sed company? ' y
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b. If the original rights to variety were owned by a company(lest YES 11. Additional explanation on ownership (Trace ownership from original explanation on ownership (Trace ownership from original explanation or only be afforded to the owners (not lices). If the rights to the variety are owned by the original breeder, that national of a country which affords similar protection to nationals. 2. If the rights to the variety are owned by the company which employed in the owners of a UPOV member country, or owned by nationals of a	nsees) who meet the following criteria: person must be a U.S. national, national of the U.S. for the same genus and speciously desired the original breeder(s), the company country which affords similar protection to	of a UPOV member country, or es. must be U.S. based, owned by to nationals of the U.S. for the same

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> U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT F DECLARATION REGARDING DEPOSIT

NAME OF OWNER (S) Pioneer Hi-Bred International, Inc.	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) Crop Genetics Research & Development	TEMPORARY OR EXPERIMENTAL DESIGNATION XW06M
	3850 N 100 E Windfall, IN 46076	VARIETY NAME 25R39
NAME OF OWNER REPRESENTATIVE (S) Gregory C. Marshall	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) Same as above	FOR OFFICIAL USE ONLY PVPO NUMBER
		#2008003 69

and the subject of the subject is a first of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

ory C- Marshall

GENERAL INSTRUCTIONS: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filing fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice). NEW: With the application for a seed reproduced variety or by direct deposit soon after filing, the applicant must provide at least 3,000 viable untreated seeds of the variety per se, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

Plant Variety Protection Office

Telephone: (301) 504-5518 FAX: (301) 504-5291

General E-mail: PVPOmail@usda.gov

Homepage: http://www.ams.usda.gov/science/pvpo/PVPindex.htm

SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and **provide evidence** that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, **Seed Regulatory and Testing Branch**, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870. http://www.ams.usda.gov/lsg/seed.htm.

ITEM

19a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

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